LORIK KASTRATI

SOFTWARE ENGINEER

DETAILS

PHONE
+38349658172

EMAIL
lorikkastrati@outlook.com

NATIONALITY
Albanian

LINKS

LinkedIn

Github

Portfolio

SKILLS

C#

Python

.NET (.NET 8, .NET Core, ASP.NET Core, MVC)

AI/LLM (LLMs, OpenAI API, LangChain, Prompt Engineering, Tool Calling, Structured Outputs, AI Agents)

RAG/Vector Search (RAG, Embeddings, Semantic Search, Vector Databases, Pinecone)

AI & Automation

Microservices

Architecture/Design(Clean Arch. Domain-Driven Design, Event Driven)

Messaging & Communication(RabbitMQ, MassTransit, Kafka)

APIs (REST, gRPC)

Databases (SQL, PostgreSQL)

Redis

PROFILE

Software Engineer with **6+ years of experience** designing and building scalable, distributed backend systems using .NET, microservices, and event-driven architecture. Strong background in high-throughput systems, messaging, distributed state, and cloud-native deployments. Experienced in building AI-powered solutions using **LLMs, LangChain, embeddings, RAG, vector databases, prompt engineering, tool calling, and AI agents**, as well as integrating AI capabilities into backend systems and automation pipelines. Proven experience delivering production-grade platforms in regulated and high-traffic domains (PAM, Finance, Healthcare). Passionate about clean architecture, system performance, observability, and applying modern AI technologies to real-world software systems. Comfortable owning features end-to-end in Agile, fast-moving teams.

EMPLOYMENT HISTORY

Software Engineer, StarLabs

Jun 2021 — Present

Tech: .NET, C#, Microsoft Orleans, Kafka, RabbitMQ, gRPC, PostgreSQL, Redis, Kubernetes, TeamCity, Octopus, ArgoCD, Kibana, Elastic Beanstalk

Worked on Sportsbook integrations and Player Account Management (PAM) systems, developing microservices using Clean Architecture and Event-Driven principles. Utilized Microsoft Orleans for distributed state, gRPC for efficient service communication, and Kafka/RabbitMQ (with Outbox pattern) for messaging.

Optimized system performance using Redis caching and PostgreSQL with advanced indexing and transaction strategies. Handled deployments with TeamCity, Octopus, and ArgoCD on Kubernetes, with monitoring via Kibana and Elastic Beanstalk.

Applied design patterns like CQRS (with MediatR), Repository, Strategy, and Unit of Work to ensure scalability and maintainability. Delivered features within Agile Scrum teams, adapting to evolving requirements and continuous feedback.

Tested developed parts of the project: UnitTesting, Component Testing, Automation Testing.

Software Developer, Qonterra

Feb 2020 — Jun 2021

I was actively involved in a real estate finance and analysis project, where I contributed to the development and implementation of software solutions using .NET and JavaScript frameworks/libraries. Mainly worked on developing APIs using .NET frameworks to enable data retrieval and processing, empowering users to analyze, calculate, and model real estate financial data.

AWS

Microsoft Orleans

Docker

Kubernetes

CI/CD (TeamCity, Octopus Deploy, ArgoCD)

CQRS, MediatR

Testing(Unit, Component, Automation)

Observability (OpenTelemetry, Elastic Search, Prometheus, Grafana, Kibana, Serilog)

Git

Agile - Scrum

L A N G U A G E S

English

Albanian

E D U C A T I O N

Bachelor, University of Business and Technology

Oct 2018 — Sept 2021

Computer Science

Certified in Web Development - Full Stack, Probit Academy

Apr 2020 — Nov 2020

P R O J E C T S

AccountantApi — AI-Powered Accounting Platform

Remote

Jun 2025 — Jan 2026

Tech Stack: .NET 10, C#, Entity Framework Core, PostgreSQL, JWT, BCrypt, Serilog, EPPlus, Docker, n8n, OpenAI API, Telegram Bot API

Built a multi-tenant accounting platform for Kosovo businesses that lets users submit invoices by sending a photo to a Telegram bot. The AI (OpenAI Vision via n8n) automatically extracts invoice data (tax IDs, amounts, dates) and saves it to the system.

- REST API with clean architecture, JWT/RBAC authentication (4 roles), and role-scoped endpoints
- n8n workflow (40+ nodes) orchestrating Telegram → OpenAI OCR → API → response
- Financial dashboards with quarterly/yearly summaries and Excel/PDF export
- Containerized with Docker + PostgreSQL 16

PayAPI - Multi-Tenant Billing Platform

Remote

Jan 2025 — Jan 2026

- Developed and enhanced a centralized billing platform supporting multiple products (e.g., Splitly and customer portals)
- Implemented subscription and one-time payment flows, including trials, coupons, and entitlement validation
- Integrated Stripe end-to-end: PaymentIntents, subscriptions, invoices, and webhook-driven billing updates
- Designed secure authentication with API key-based access and JWT-based admin authorization (RBAC)
- Built backend services using ASP.NET Core 8, C#, and PostgreSQL following clean architecture principles
- Ensured production readiness with structured logging, error handling, and reliable webhook processing
- Contributed to frontend/payment integration using React and TypeScript, improving checkout reliability and environment consistency

ELibrary

Remote

Jan 2024 — Present

- Designed and implemented a distributed eLibrary platform using Clean Architecture across multiple microservices (Books, Users, Orders, Consumers).
- Integrated RabbitMQ + MassTransit for asynchronous communication and eventual consistency.
- Implemented Elasticsearch for fast searching and centralized logging using Serilog + Kibana.
- Containerized services with Docker and introduced full observability using OpenTelemetry, Prometheus, Grafana, and Jaeger.
- Focused on scalability, fault tolerance, and production-readiness.